

NWS Form E-5

(04-2006)

(PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)

San Angelo, TX

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:

MONTH

YEAR

September 2012

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE

Jason Johnson

DATE

October 14, 2012

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

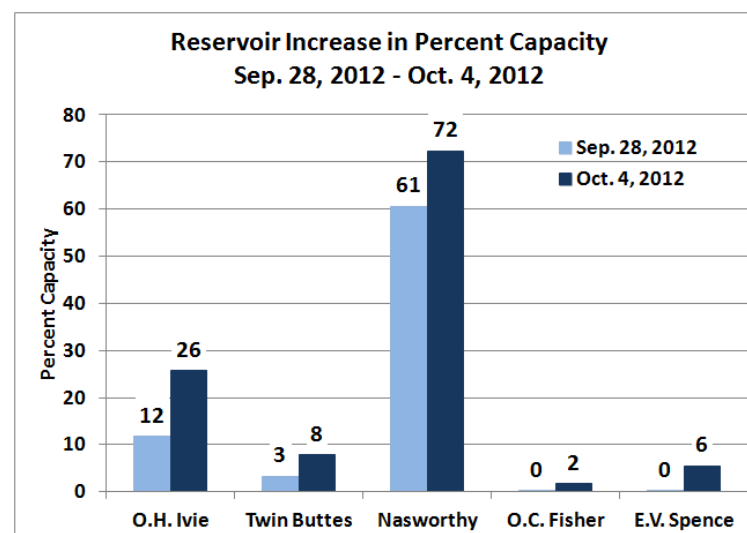
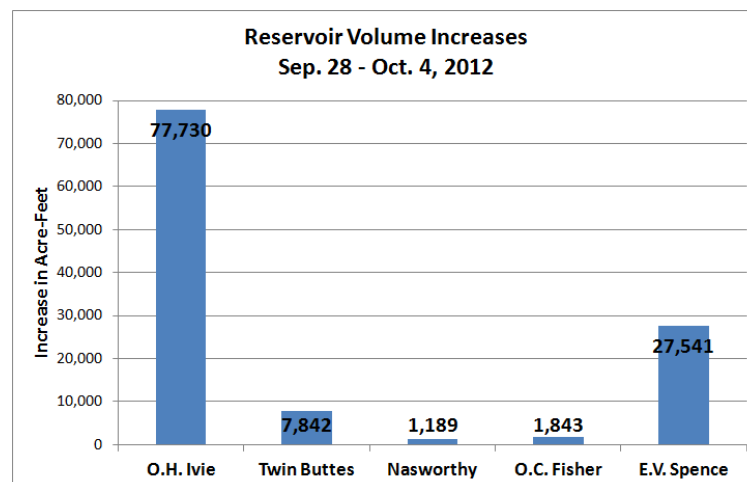
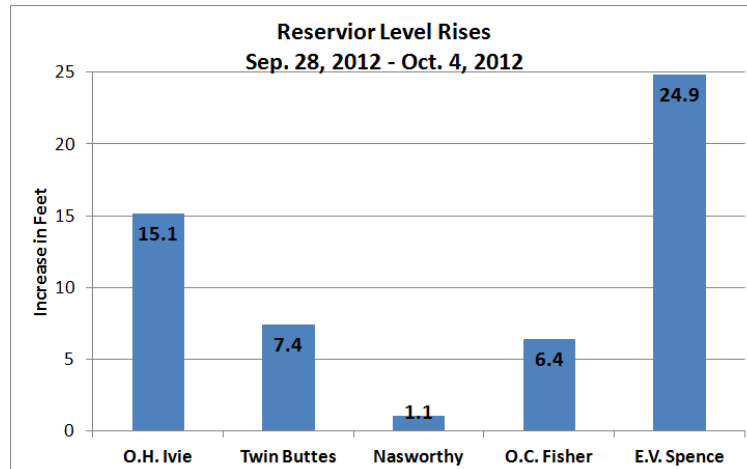
☒ An X inside this box indicates that no flooding occurred within this hydrologic service area.

After the first week of September, several cold fronts pushed through west central Texas during the month. These cold fronts brought relief from the hot summertime temperatures and produced generous amounts of rain across portions of the San Angelo hydrologic service area (HSA).

September 12-13: An upper level disturbance interacted with a strong cold front that moved south into Texas. Showers and thunderstorms developed over much of the region. Heavy rainfall (three to five inches) occurred over portions of Irion, Coleman, Haskell and Throckmorton Counties.

September 27-29: A significant rainfall event unfolded late in the month as moisture from the Gulf of Mexico and eastern Pacific fueled several upper level disturbances that moved across the region from Mexico. A very moist airmass was created by combining Gulf moisture at the lower levels with middle and upper level moisture from the remnants of Hurricane Miriam from the eastern Pacific. Late on the 27th into early on the 28th, very heavy rain (three to five inches) occurred over parts of Callahan, Concho and McCulloch Counties. On Beals Creek, in Mitchell and Howard Counties, widespread rainfall amounts of 2.5 to 6 inches created an initial flood wave on the Colorado River. Another series of widespread heavy rain showers occurred late on the 28th into the early morning hours of the 29th. Much of the upper Colorado River Basin (upstream of O.H. Ivie Reservoir) received widespread three to six inches of rain. Isolated areas in Tom Green, Concho and Runnels Counties observed eight to ten inches of rain. Significant rises were observed along the Colorado River from above Silver to E.V. Spence Reservoir in Coke County, along the Colorado River in Runnels County to O.H. Ivie Reservoir and on the Concho River in eastern Tom Green County to O.H. Ivie Reservoir. The flood impacts reported from county officials and newspaper reports include damage to FM, County and private roadways, flooding of temporary hunting campsites along the creeks and rivers, damage to fences, and flooding of low lying areas that caused rural residents to be cut off from primary and secondary roads. Photos of the Colorado and Concho Rivers can be found at the end of this report.

The widespread heavy rainfall was beneficial to area water supply reservoirs across the Concho Valley. The area has endured drought conditions since late 2010. Since very few rainfall events since late 2010 have generated runoff, this event was significant in relieving depleted water supply reservoirs. The following graphs depict the increases in area surface water supply reservoirs.



Drought conditions improved over central portions of the HSA during September. The U.S. Drought Monitor depicted severe to exceptional drought conditions across portions of the Big Country north of Interstate Highway 20. Parts of Sutton and Kimble County were under severe to extreme drought conditions. Much of the remainder of the HSA was depicted as experiencing moderate drought conditions.

The average precipitation reported from coop observers in September was 5.70 inches of rain. The highest monthly precipitation total of 10.60 inches was reported in Taylor County. Coop observers in Coleman, Runnels and Taylor Counties received over 8.00 inches of rain in September.

The San Angelo Regional Airport received 6.91 inches of precipitation during September, which was 4.45 inches above normal for the month. The monthly normal rainfall for San Angelo in September is 2.46 inches.

The Abilene Regional Airport received 8.48 inches of precipitation during September, which was 6.24 inches above normal for the month. The monthly normal rainfall for Abilene in September is 2.24 inches.

Junction received 2.88 of an inch of rain during September. The estimated average monthly rainfall in September is about 2.37inches.

Coop Observer Rainfall Totals for September, 2012:

| Station Name | Amount (in) | | Station Name | Amount (in) |
|---------------------|--------------------|--|---------------------|--------------------|
| Abilene 2 | 10.60 | | Junction 4SSW | 3.03 |
| Acton Ranch | 5.72 | | Lake Abilene | 8.50 |
| Albany | 5.39 | | Mason | 4.21 |
| Ballinger 2NW | 8.53 | | Menard | 2.60 |
| Brady | 5.28 | | Merkel 12SW | 7.86 |
| Brownwood | 3.21 | | Mertzon 12NNW | 4.85 |
| Burkett | 6.87 | | Ozona | 7.41 |
| Coleman | 7.99 | | Ozona 22SE | 4.41 |
| Concho Park | 5.53 | | Putnam | 7.90 |
| Eden | 7.93 | | Red Bluff Crossing | 5.45 |
| Eldorado | 3.75 | | Roscoe | 5.01 |
| Fort Griffin | 4.90 | | Rotan | 4.95 |
| Fort McKavett | 1.70 | | San Angelo WFO | 6.68 |
| Glen Cove 2NE | 10.21 | | San Saba 7NW | 3.76 |
| Hamlin | 5.18 | | Throckmorton 7NE | 3.64 |
| Haskell | 3.91 | | Water Valley | 6.79 |
| Hords Creek | 9.11 | | Woodson | 3.90 |
| Humble Pump | 2.68 | | | |

Reservoir Conditions (end of September, 2012)

| Reservoir | Conservation Capacity (Ac-Ft) | End of Month Capacity (Ac-Ft) | Percent of Capacity (%) |
|--------------------|--|--|--|
| Fort Phantom Hill | 70,030 | 36,280 | 52 |
| Lake Stamford | 51,570 | 16,190 | 31 |
| Hubbard Creek Lake | 317,800 | 116,740 | 37 |
| Hords Creek Lake | 8,640 | 1,490 | 17 |
| Lake Brownwood | 131,428 | 72,560 | 55 |
| E.V. Spence | 488,760 | 7,020 | 1 |
| O.C. Fisher | 119,200 | 2,030 | 2 |
| O.H. Ivie | 554,340 | 139,700 | 25 |
| Twin Buttes | 177,800 | 13,800 | 8 |

Hydro Products Issued

FFA = 5

FFW = 5

FFS = 2

FLS = 8 (Flood Advisory Statement)

FLW = 7 (River Flood Warning)

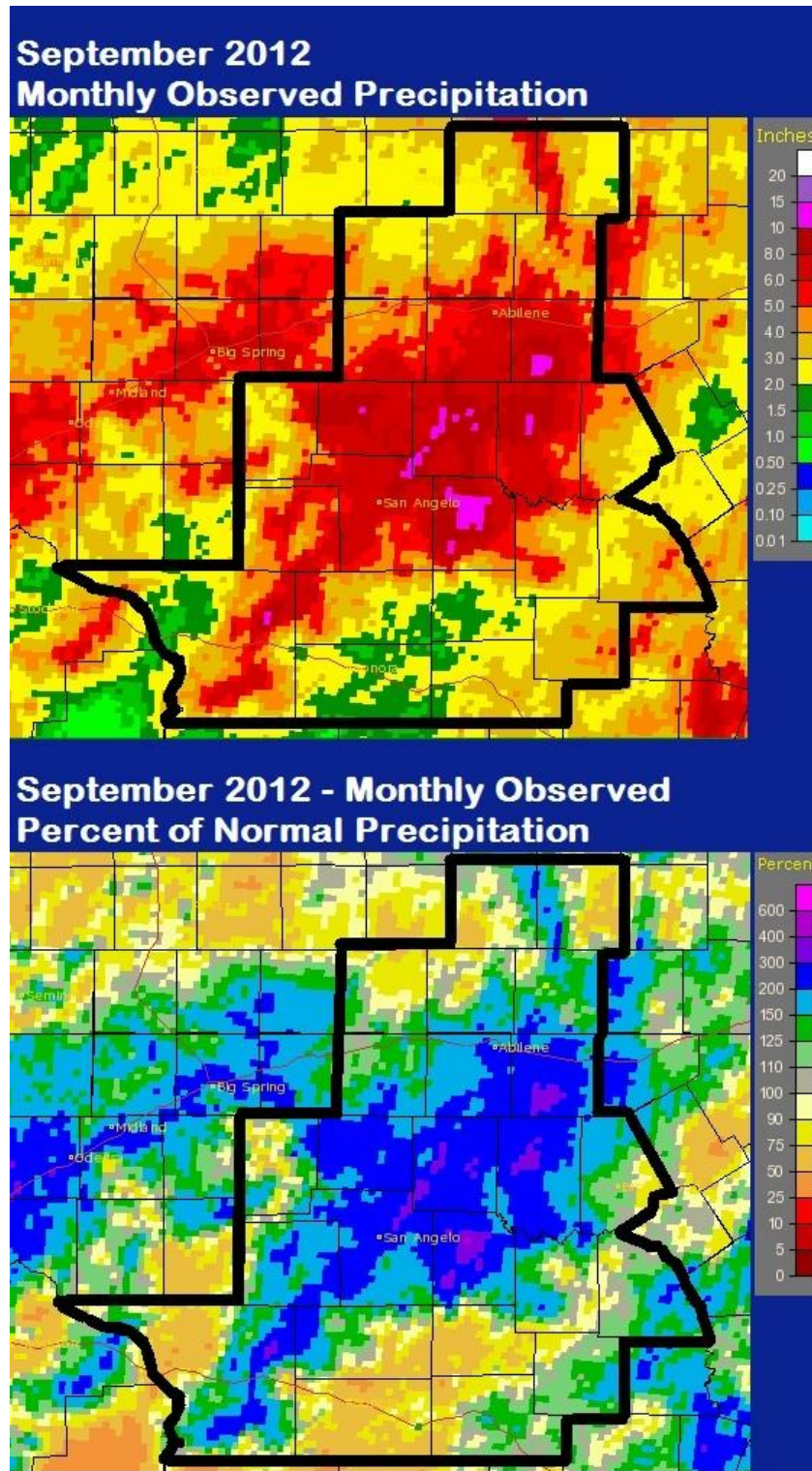
FLS = 9 (River Flood Statement)

RVS = 2 (River Statement)

ESF = 2 (Probabilistic Forecast)

The NWS precipitation analysis can be viewed at <http://water.weather.gov/>.

The total monthly precipitation estimate and percent of normal precipitation for September across the San Angelo HSA is depicted below.





Right overbank of Colorado River near Ballinger, left photo is on 9/29, right photo is on 9/30.



Concho River at FM Road 1692 in eastern Tom Green County upstream of Paint Rock.



Concho River at Paint Rock on 10/29/2012, looking downstream.

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Hydrologic Service Area (HSA)

San Angelo, TX

FLOOD STAGE REPORT

REPORT FOR:
MONTH YEAR

September 2012

| RIVER AND STATION | FLOOD STAGE (Feet) | ABOVE FLOOD STAGES (Date) | | CREST | |
|-------------------------------------|--------------------------|------------------------------|-------------------------|-----------------|-------------------------|
| | | FROM | TO | STAGE (Feet) | DATE |
| Colorado River abv Silver (SILT2) | 15.0 ft | 09/29/2012 04:30 CDT | 09/30/2012 20:00 CDT | 19.96 ft | 09/29/2012 12:45 CDT |
| Colorado River nr Ballinger (BILT2) | 18.0 ft | 09/29/2012 12:15 CDT | 09/30/2012 06:45 CDT | 27.76 ft | 09/29/2012 20:15 CDT |
| Elm Creek at Ballinger (BAMT2) | 7.0 ft | 09/29/2012 13:15 CDT | 09/29/2012 17:15 CDT | 7.20 ft | 09/29/2012 16:15 CDT |